

**MIRRORS - POWER****1997 ACCESSORIES/SAFETY EQUIP General Motors Corp. - Power Mirrors****DESCRIPTION & OPERATION**

Power mirror assemblies contain 2 motors each. One motor positions the mirror up and down, and the other positions mirror right and left. Reversing polarity of motors will move power mirrors in opposite directions. The power mirror switch is located on the left door trim panel.

**TROUBLE SHOOTING**

Before proceeding with specific testing, check the following for proper operation:

- Check courtesy light and CTSY (15-amp or 20-amp) fuse for proper operation.
- Check power seat system operation. Ensure power accessory circuit breaker is okay.
- Check and ensure grounds are clean and tight.
- Check for broken or partially broken wire inside insulation, which could cause system malfunction, but prove good in a continuity/voltage check with system disconnected. These circuits may be intermittent or have high resistance when loaded, and if possible, should be checked by monitoring voltage drop with system operational (under load).
- Check for proper installation of aftermarket electronic equipment.

**TESTING****BOTH POWER MIRRORS DO NOT OPERATE**

1. Using test light, backprobe between power mirror switch connector terminal "H" (Orange wire) and ground. If test light illuminates, go to next step. If test light does not illuminate, repair open in Orange wire between power mirror switch and fuse block.
2. Backprobe between power mirror switch terminals "H" (Orange wire) and "A" (Black wire). If test light illuminates, check for poor connection at power mirror switch connector. If connection is okay, replace switch. If test light does not illuminate, repair poor connection or open in Black wire to power mirror switch.

**LEFT POWER MIRROR DOES NOT OPERATE IN LEFT/RIGHT POSITIONS**

1. Using test light, backprobe between power mirror switch terminals "D" (Yellow wire) and "B" (Light Blue wire). Move power mirror switch to left and right positions. If test light illuminates in both positions, go to next step. If test light does not illuminate in one or both positions, replace power mirror switch.
2. Backprobe between power mirror connector terminals "A" (Yellow wire) and "D" (Light Blue wire). Move power mirror switch to left and right positions. If test light illuminates in both positions, replace power mirror. If test light does not illuminate in both positions, repair open in Yellow or Light Blue wire between power mirror switch connector and power mirror connector.

**LEFT POWER MIRROR DOES NOT OPERATE IN UP/DOWN POSITIONS**

1. Using test light, backprobe between power mirror switch terminals "D" (Yellow wire) and "E" (Light Green wire). Move power mirror switch to up and down positions. If test light illuminates in both positions, go to next step. If test light does not illuminate in one or both positions, replace power mirror switch.
2. Backprobe between power mirror connector terminals "C" (Yellow wire) and "B" (Light Green wire). Move power mirror switch to up and down positions. If test light illuminates in both positions, replace power mirror. If test light does not illuminate in both positions, repair open in Yellow or Light Green wire between power mirror switch connector and power mirror connector.

**RIGHT POWER MIRROR DOES NOT OPERATE IN LEFT/RIGHT POSITIONS**

1. Using test light, backprobe between power mirror switch terminals "D" (Yellow wire) and "F" (Purple/White wire). Move power mirror switch to left and right positions. If test light illuminates in both positions, go to next step. If test light does not illuminate in one or both positions, replace power mirror switch.
2. Backprobe between power mirror connector terminals "C" (Yellow wire) and "B" (Purple/White wire). Move power mirror switch to left and right positions. If test light illuminates, replace power mirror. If test light does not illuminate, repair open in Yellow or Purple/White wire between power mirror switch connector and power mirror connector.

**RIGHT POWER MIRROR DOES NOT OPERATE IN UP/DOWN POSITIONS**

1. Using test light, backprobe between power mirror switch terminals "D" (Yellow wire) and "C" (Gray wire). Move power mirror switch to up and down positions. If test light illuminates in both positions, go to next step. If test light does not illuminate in one or both positions, replace power mirror switch.
2. Backprobe between power mirror connector terminals "A" (Yellow wire) and "D" (Gray wire). Move power mirror switch to up and down positions. If test light illuminates, replace power mirror. If test light does not illuminate, repair open in Yellow or Gray wire between power mirror switch connector and power mirror connector.

**REMOVAL & INSTALLATION**

**CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See COMPUTER RELEARN PROCEDURES article in GENERAL INFORMATION before disconnecting battery.**

**POWER MIRROR ASSEMBLY****Removal & Installation**

1. Disconnect negative battery cable. Remove door handle bezel screw. Prying at rear of bezel with lever in locked position, remove door handle bezel from trim panel.

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2. If equipped with window regulator handle, insert Door Handle Remover (J-9886-01) between handle and bearing plate. Align tool parallel with door handle, and push to disengage clip. Pull handle from door. Remove bearing plate.
3. On all models, use flat-blade tool to carefully remove power accessory switch panel. Pry off cover, and remove armrest screw. Remove door trim panel screws. Using Trim Panel Remover (J-38778), remove trim panel. Remove mirror access hole plugs. Remove power mirror mounting nuts. Disconnect electrical connector from power mirror. Remove power mirror assembly.
4. To install, reverse removal procedure. Tighten power mirror mounting screws to 53 INCH lbs. (6 N.m). Tighten handle bezel and door trim panel screws to 17 INCH lbs. (1.9 N.m).

## **POWER MIRROR GLASS**

### **Removal & Installation**

1. Place tape over mirror glass. Cover mirror face with a cloth, and break mirror lens. Wearing gloves, clean broken glass from inside mirror frame.
2. To install, remove adhesive backing from back of new mirror lens. Firmly press mirror lens into mirror housing.

## **WIRING DIAGRAMS**

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**Fig. 1: Power Mirror System Wiring Diagram**